

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: Jeffamine DA Passiac

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: 1.

Release Activity: PVSC landfills the sludge generated from IFF on-sit

| Release Description: | WATER | LANDFILL Non-sludge/Sludge | STACK | FUGITIVE |
|----------------------|----------------------|--------------------------------|----------------------|----------------------|
| Total Releases: | N/A (kg/yr) | 0.14 (kg/yr) | N/A (kg/yr) | N/A (kg/yr) |
| Release Days/yr: | N/A | 0.00/50.00 | N/A | N/A |
| Per Site Release: | N/A (kg/site/day) | 0.00/2.90E-03 (kg/site/day) | N/A (kg/site/day) | N/A (kg/site/day) |

Remarks:

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DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 1

ACTIVITY: PVSC landfills the sludge generated from IFF on-sit

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

| NUMBER OF SITES | NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days) | LANDFILLED SLUDGE ¹ AND DAYS OF RELEASE (kg/site/day)/(days) | MIGRATION DESCRIPTOR ² | ADSORPTION TO WASTEWATER SLUDGE (%) | DRINKING WATER TREATMENT (%) |
|-----------------|---|--|-----------------------------------|-------------------------------------|------------------------------|
| 1. | 0.00/0.00 | 2.90E-03/50.00 | Rapid | 1.45 | 0.00 |

¹ Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

| ² Migration Descriptor | Log Koc | Groundwater Concentration (GWC) (mg/L per kg release) |
|-----------------------------------|--------------|--|
| Negligible | no migration | None |
| Negligible to slow | > 4.5 | 3.21E-6 |
| Slow | <4.5 to 3.5 | 2.67E-5 |
| Moderate | <3.5 to 2.5 | 5.95E-5 |
| Rapid | <2.5 | 7.55E-5 |

| Exposure Units | Results | ASSUMPTIONS | | | |
|---------------------------------|----------|---------------|---------------|------------|---------------|
| | | ED (years) | AT (years) | BW (kg) | IR (L/day) |
| Cancer | | | | | |
| LADD _{pot} (mg/kg/day) | 6.02E-08 | 33.00 | 78.00 | 80.00 | 1.04 |
| LADC _{pot} (mg/L) | 4.63E-06 | 33.00 | 78.00 | NA | NA |

REMARKS:

Sludge generated from IFF on-sited wastewater treatment (Equipment cleaning) is sent to Passaic Valley Sewerage Commissions and landfilled.